

AMENDMENT TO THE CLAIMS

Applicant selectively amends the claims as follows:

Listing of Claims:

- 1 1. (Currently Amended) An apparatus comprising:
 - 2 a data path output unit to output a packet header of a packet relating to a message request
 - 3 transaction, the packet header including:
 - 4 a format field to indicate the length of the packet header and to further specify
 - 5 whether the packet is to include data;
 - 6 a subset of a type field to indicate the packet relates to a message request transaction;
 - 7 a message group sub-field to indicate the packet is associated with one of a plurality
 - 8 of message groups, each message group including one or more message types; and
 - 9 a message field to include a message to implement the one or more message types,
the message to include at least one message selected from the following group of: a
message to unlock a device, a message to reset a device, a message to indicate a
correctable error condition, a message to indicate an uncorrectable error condition, a
message to indicate a fatal error condition, a message to report a bad request packet, a
message to indicate power management and a message to emulate an interrupt signal.
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- 1 2-4. (Canceled).

1 5. (Previously Presented) The apparatus of claim 1, wherein the message group sub-field is a
2 three-bit sub-field including one bit from the type field and two bits from an extended type
3 field.

1 6. (Currently Amended) An apparatus comprising:
2 a data path input unit to receive a packet header of a packet relating to a message request
3 transaction, the packet header including;
4 a format field to indicate the length of the packet header and to further specify
5 whether the packet is to include data;
6 a subset of a type field to indicate the packet relates to a message request transaction;
7 a message group sub-field to indicate the packet is associated with one of a plurality
8 of message groups, each message group including one or more message types; and
9 a message field to include a message to implement the one or more message types, the
10 message to include at least one message selected from the following group of: a message
11 to unlock a device, a message to reset a device, a message to indicate a correctable error
12 condition, a message to indicate an uncorrectable error condition, a message to indicate a
13 fatal error condition, a message to report a bad request packet, a message to indicate
14 power management and a message to emulate an interrupt signal.

1 7-9. (Canceled).

1 10. (Previously Presented) The apparatus of claim 6, wherein the message group sub-field is a
2 three-bit sub-field including one bit from the type field and two bits from an extended type field.

1 11. (Currently Amended) A system comprising:
2 a transmitting device to transmit a packet header of a packet relating to a message request
3 transaction, the packet header including;
4 a format field to indicate the length of the packet header and to further specify
5 whether the packet is to include data;
6 a subset of a type field to indicate the packet relates to a message request transaction;
7 a message group sub-field to indicate the packet is associated with one of a plurality
8 of message groups, each message group including one or more message types;
9 a message field to include a message to implement the one or more message types,
10 the message to include at least one message selected from the following group of: a
11 message to unlock a device, a message to reset a device, a message to indicate a
12 correctable error condition, a message to indicate an uncorrectable error condition, a
13 message to indicate a fatal error condition, a message to report a bad request packet, a
14 message to indicate power management and a message to emulate an interrupt signal; and
15 a receiving device responsive to the transmitting device, the receiving device to receive
16 the packet header.

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1 12-14. (Canceled).

1 15. (Previously Presented) The system of claim 11, wherein the message group sub-field is a
2 three-bit sub-field including one bit from the type field and two bits from an extended type
3 field.

1 16-18. (Canceled).

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1 19. (Previously Presented) The apparatus of claim 1, wherein the plurality of message groups
2 comprises a power management message group to include one or more power management
3 message types.

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1 20. (Previously Presented) The apparatus of claim 1, wherein the plurality of message groups
2 comprises an interrupt signaling message group to include one or more interrupt signal message
3 types.

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1 21. (Previously Presented) The apparatus of claim 6, wherein the plurality of message groups
2 comprises a power management message group to include one or more power management
3 message types.

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1 22. (Previously Presented) The system of claim 11, wherein the plurality of message groups
2 comprises a power management message group to include one or more power management
3 message types.

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1 23. (New) The apparatus of claim 1, wherein the message to emulate an interrupt signal
2 comprises the message to emulate a legacy peripheral component interconnect (PCI) interrupt
3 signal.

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1 24. (New) The apparatus of claim 1, wherein the message field to include the message to
2 implement the one or more message types further includes an indication of whether a completion
3 indication is required for the implemented message.

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1 25. (New) The apparatus of claim 24, wherein, not supporting the implementation of the
2 message indicates to a data path input unit that the completion is not required.

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1 26. (New) The apparatus of claim 1, wherein the plurality of message groups comprises an
2 advanced switching message group to include one or more advanced switching message types.

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1 27. (New) The apparatus of claim 1, the packet header further comprising:
2 a requester identification field to include information to identify a requester of the
3 message request; and
4 a tag field to include information to identify a completion relating to the message request,
5 wherein the requester identification field and the tag field together form a transaction
6 identification field.

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1 28. (New) The apparatus of claim 27, wherein the requester identification field comprises the
2 requester identification field to include a bus number, a device number and a function number
3 associated with the requester.

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1 29. (New) The system of claim 11, the packet header further comprising:
2 a requester identification field to include information to identify a requester of the
3 message request; and
4 a tag field to include information to identify a completion relating to the message request,
5 wherein the requester identification field and the tag field together form a transaction
6 identification field.

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1 30. (New) The system of claim 29, wherein the requester identification field comprises the
2 requester identification field to include a bus number, a device number and a function number
3 associated with the requester.

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1 31. (New) The system of claim 29, wherein the receiving device, based on implementing the
2 message request, indicates completion of the message request via a packet header of a packet
3 relating to the completion, the packet header to include:
4 a completion status field to indicate a status of a completion;
5 a completer identification field to include a bus number, a device number and a function
6 number associated with the completer of the message request in the receiving device; and
7 the transaction identification field included in the packet header of the packet relating to
8 the message request.

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1 32. (New) The system of claim 31, wherein the status of a completion includes at least one
2 status selected from the following group of: to indicate successful completion, to indicate an
3 unsupported message request, and to indicate a completer abort.